

Blast 2 Sequ nc s

WARNING: First sequence must be nucleotide for this program

WARNING: Second sequence must be nucleotide for this program

| Program blastp Matrix BLOSUM62 | |
|---|---------------------------------|
| Match: Mismatch: populties | |
| Open gap 11 and extension gap 1 penalties gap x_dropoff 50 expect 10.0 word size 3 Filter Align Clear In | put J |
| Sequence 1 Enter accession or GI DEGP or download from file | |
| or sequence in FASTA format from: 0 to: 0 TVNTPREPRINTQQFFGDDSPFCQEGSFFQSSPFCQGGGGGGQQQQRFMALGSGVIIDAD KGYVVTNNHVVDNATVIKVQLSDGRKFDAKMVGKDPRSDIALIQIQNPKNLTAIKMADSDA LRVGDYTVAIGNPFGLGETVTSGIVSALGRSGLNAENYENFIQTDAAINRGNSGGALVNLN GELIGINTAILAPDGGNIGIGFAIPSNMVKNLTSQMVEYGQVKRGELGIMGTELNSELAKA MKVDAQRGAFVSQVLPNSSAAKAGIKAGDVITSLNGKPISSFAALRAQVGTMPVGSKLTLG LLRDGKQVNVNLELQQSSQNQVDSSSIFNGIEGAEMSNKGKDQGVVVNNVKTGTPAAQIGL KKGDVIIGANQQAVKNIAELRKVLDSKPSVLALNIQRGDSTIYLLMQ | DEG PG E. Col: |
| Sequence 2 Enter accession or GI SEQ or download from file or sequence in FASTA format from: 0 to: 0 | |
| qsegpavvnıqaapartqngsgnaetdsdpladsdpryerrkrivpnmpelpqeeaddgg lnfgsgfiiskngyiltnthvvagmgsikvllndkreytakligsdvqsdvallkidatee lpvvkignpknlkpgewvaaigapfgfdnsvtagivsakgrslpnesytpfiqtdvainpg nsggplfnlkgqvvginsqiysrsggfmgisfaipidvamnvaeqlkntgkvqrgqlgvii qevsyglaqsfgldkasgaliakipgspaeraglqagdivlsldggeirssgdlpvmvgai tpgkevslgvwrkgeeitikaklgnaaehtgassktdeapyteqqsgtfsvesagitlqth tdssgkhlvvvrvsdaaeraglrhgdeilavrsprq | SEG ID NO: 4 6 091338,098 |
| Align Clear Input | |

Comments and suggestions to <u>blast-help@ncbi.nlm.nih.gov</u>

SEQ 10 NO:4 05/588, 090



Blast 2 Sequences results

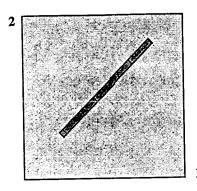
BLAST 2 SEQUENCES RESULTS VERSION BLASTP 2.2.1 [Aug-1-2001]

Matrix BLOSUM62 ap gap open: 11 gap extension: 1 x_dropoff: 50 expect: 10.0 wordsize: 3 Filter Align

Sequence 1 lcl|seq_1 Length 474 (1..474)

Sequence 2 lci|seq_2 Length 463 (1 .. 463)





NOTE: The statistics (bitscore and expect value) is calculated based on the size of nr database

Score = 217 bits (552), Expect = 3e-55 Identities = 115/267 (43%), Positives = 177/267 (66%), Gaps = 3/267 (1%)



Query: 114 GSGVIIDADKGYVVTNNHVVDNATVIKVQLSDGRKFDAKMVGKDPRSDIALIQIQNPKNL 173 IKV L+D R++ AK++G D +SD+AL++I + L GSG II + GY++TN HVV

Sbjct: 126 GSGFIISKN-GYILTNTHVVAGMGSIKVLLNDKREYTAKLIGSDVQSDVALLKIDATEEL 184

Query: 174 TAIKMADSDALRVGDYTVAIGNPFGLGETVTSGIVSALGRSGLNAENYENFIQTDAAINR 233 +K+ + L+ G++ AIG PFG +VT+GIVSA GRS L E+Y FIQTD AIN

Sbjct: 185 PVVKIGNPKNLKPGEWVAAIGAPFGFDNSVTAGIVSAKGRS-LPNESYTPFIQTDVAINP 243

Query: 234 GNSGGALVNLNGELIGINTAILAPDGGNIGIGFAIPSNMVKNLTSQMVEYGQVKRGELGI 293

GNSGG L NL G+++GIN+ I + GG +GI FAIP ++ N+ Q+ G+V+RG+LG+ Sbjct: 244 GNSGGPLFNLKGQVVGINSQIYSRSGGFMGISFAIPIDVAMNVAEQLKNTGKVQRGQLGV 303

Query: 294 MGTELNSELAKAMKVDAQRGAFVSQVLPNSSAAKAGIKAGDVITSLNGKPISSFAALRAQ 353

E++ LA++ +D GA ++++ P S A +AG++AGD++ SL+G I S

Sbjct: 304 IIQEVSYGLAQSFGLDKASGALIAKI-PGSPAERAGLQAGDIVLSLDGGEIRSSGDLPVM 362

Query: 354 VGTMPVGSKLTLGLLRDGKQVNVNLEL 380 VG + G +++LG+ R G+++ + +L

Sbjct: 363 VGAITPGKEVSLGVWRKGEEITIKAKL 389

0.15 total secs. 0.02 sys. secs 0.13 user secs. CPU time:

Gapped

Lambda

0.134 0.367 0.315

Gapped

Lambda

0.0410 0.140 0.267

Matrix: BLOSUM62

```
Gap Penalties: Existence: 11, Extension: 1
Number of Hits to DB: 1763
Number of Sequences: 0
Number of extensions: 158
Number of successful extensions: 5
Number of sequences better than 10.0: 1
Number of HSP's better than 10.0 without gapping: 1
Number of HSP's successfully gapped in prelim test: 0
Number of HSP's that attempted gapping in prelim test: 0
Number of HSP's gapped (non-prelim): 2
length of query: 474
length of database: 242,984,850
effective HSP length: 124
effective length of query: 350
effective length of database: 179,419,226
effective search space: 62796729100
effective search space used: 62796729100
т: 9
A: 40
X1: 16 ( 7.3 bits)
X2: 129 (49.7 bits)
X3: 129 (49.7 bits)
S1: 42 (22.0 bits)
S2: 73 (32.7 bits)
```